Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

The following claim listing is meant to replace all previous claim listings.

- 1. (Currently Amended): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a cyclopropane fatty acid synthase methyl transferase that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid-into a plant cell, a plant tissue or a seed of a plant;
 - b. regenerating a transgenic plant from the plant cell, the plant tissue or the seed of the plant wherein said transgenic plant produces branched fatty acids; and
 - c. recovering said branched fatty acids from said transgenic plant.
 - 2. (Previously Presented): The process according to claim 1, further comprising the step of extracting the branched fatty acids.

3-11 (Cancelled).

- 12. (Currently Amended): A recombinant nucleic acid comprising in the following order:
 - a. a plant expressible promoter <u>selected from the group consisting of a nopaline</u> <u>synthase promoter (nos), an octopine synthase promoter (ocp), a mannopine promoter, a agropine promoter and an acyl carrier protein promoter (ACP);</u>
 - b. that regulates the expression of a nucleic acid coding for a methyl transferase that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid;
 - c. a nucleic acid coding for said methyl transferase a cyclopropane fatty acid synthase; and

- d. a 3' transcription termination sequence.
- 13. (Previously Presented): The nucleic acid according to Claim 12, wherein the promoter expresses the nucleic acid in a seed of a plant.
 - 14 16 (Cancelled).
 - 17. (Currently Amended): A vector comprising a recombinant nucleic acid according to elaim Claim 12.
 - 18. (Previously Presented): A plant cell comprising a recombinant nucleic acid according to Claim 12.
 - 19. (Cancelled).
 - 20. (Previously Presented): A transgenic plant comprising at least one cell according to claim 18.
 - 21. (Previously Presented): A transgenic plant comprising at least in one part of its cells, a nucleic acid according to Claim 12.
 - 22. (Cancelled).
 - 23. (Previously Presented): A process for preparing branched fatty acids from a transgenic plant whose cells contain a recombinant nucleic acid according to Claim 12, comprising:

culturing said transgenic plant in field; recovering the seeds from said transgenic plant; and extracting the branched fatty acids from these seeds.

24 - 29 (Cancelled).

- 30. (Currently Amended): The plant cell according to elaim Claim 18, wherein said plant cell is colza, sunflower, peanut, soya, flax or maize.
- 31. (Currently Amended): The process according to claim 1, further comprising the steps of:

culturing said plant cell in a medium suitable for growth; and extracting and purifying the branched fatty acids from said plant cell or from the supernatant of said medium.

32. (Cancelled):

33. (Previously Presented): The nucleic acid according to Claim 12, wherein the plant expressible promoter is an acyl carrier protein promoter (ACP) or a napine promoter.

34. (Cancelled):

- 35. (Withdrawn): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a S-adenosyl-methionine that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid into a plant cell, a plant tissue or a seed of a plant;
 - b. regenerating a transgenic plant from the plant cell, the plant tissue or the seed of the plant wherein said transgenic plant produces branched fatty acids; and
 - c. recovering said branched fatty acids from said transgenic plant.
- 36. (Withdrawn): A recombinant nucleic acid comprising in the following order:
 - a. a plant <u>expressible</u> promoter that regulates the expression of a nucleic acid coding for a S-adenosyl methionine that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid;

- b. a nucleic acid coding for said S-adenosyl methionine; and
- c. a 3' transcription termination sequence.

Please add the following new claim:

- 37. (New): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a cyclopropane fatty acid synthase into a tobacco cell, a tobacco tissue or a tobacco seed;
 - b. regenerating a transgenic plant from the tobacco cell, the tobacco tissue or the tobacco seed, wherein said transgenic plant produces branched fatty acids; and
 - c. recovering said branched fatty acids from said transgenic plant.